

# METHOD AND APPARATUS FOR PRECISE TEMPERATURE CYCLING IN CHEMICAL/ BIOCHEMICAL PROCESSES

## Abstract

A method for implementing a temperature cycling operation for a biochemical sample to be reacted includes applying an infrared (IR) heating source to the sample at a first infrared wavelength selected so as to generate a first desired temperature for a first duration and produce a first desired reaction within the sample. Following the first desired reaction, applying the infrared (IR) heating source to the sample at a second infrared wavelength selected so as to generate a second desired temperature for a second duration and produce a second desired reaction within the sample.